

**PHOTOCATALYST WITH TITANIUM DIOXIDE AS BASE MATERIAL AND ITS PRODUCTION**

Patent Number: JP9267037  
Publication date: 1997-10-14  
Inventor(s): MORIMITSU KOICHI; KURIHARA TOKUMITSU; SAITO TATSUO; BUSAKA HIDEKI  
Applicant(s): TITAN KOGYO KK  
Requested Patent:  JP9267037  
Application Number: JP19960106132 19960401  
Priority Number(s):  
IPC Classification: B01J21/06; B01J35/02; B01J35/10  
EC Classification:  
Equivalents: JP3388993B2

**Abstract**

**PROBLEM TO BE SOLVED:** To provide a photocatalyst being a titanium dioxide forming solid soln. with Nb(V).  
**SOLUTION:** The titanium dioxide containing 0.1-5.0wt.% Nb<sub>2</sub>O<sub>5</sub> and having 50-350m<sup>2</sup>/g specific surface area or the titanium dioxide containing 0.1-5.0wt.% Nb<sub>2</sub>O<sub>5</sub> and having a crystalline diameter within a range of 80-250Å exhibit an excellent photocatalytic activity. The photocatalyst is obtained by adding a Nb(V) compd. to titanyl sulfate or metatitanic acid and heating at ≤700 deg.C.

Data supplied from the esp@ccnet database - 12